

## Storm Data and Unusual Weather Phenomena - July 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>IOWA, Southwest</b>				
<b>MILLS COUNTY --- PACIFIC JCT [41.02, -95.80]</b>				
	07/08/09 05:50 CST		0.25M	Lightning
	07/08/09 05:50 CST		0	Source: Newspaper
Lightning apparently started a chain-reaction fire which eventually totally destroyed or significantly damaged 15 semi trucks at a fleet maintenance store near Interstate 29 near Pacific Junction.				
<b>A complex which moved down the Missouri River during the predawn hours of July 8th spread an outflow boundary into southeast Nebraska. Lightning from one storm in extreme southwest Iowa caused about a quarter of a million dollars in damage to more than a dozen semi trucks near Pacific Junction.</b>				
<b>SHELBY COUNTY --- 3.6 W HARLAN [41.65, -95.40], HARLAN [41.65, -95.33]</b>				
	07/12/09 09:30 CST		0	Thunderstorm Wind (EG 50 kt)
	07/12/09 09:45 CST		0	Source: Emergency Manager
Thunderstorm winds estimated at 60 mph downed a few trees and power lines from west of Harlan into town.				
<b>HARRISON COUNTY --- 0.5 E MODALE [41.62, -96.01]</b>				
	07/12/09 10:45 CST		0	Thunderstorm Wind (EG 50 kt)
	07/12/09 10:45 CST		0	Source: Law Enforcement
Thunderstorm winds estimated at close to 60 mph downed a large tree branch in the area.				
<b>An upper level disturbance combined with the return flow of warmer and more unstable air and fueled a thunderstorm complex that dropped down the Missouri River Vally during the mid to late morning hours of July 12th. The storms produced mainly strong winds.</b>				
<b>HARRISON COUNTY --- 4.1 E PISGAH [41.83, -95.85]</b>				
	07/22/09 18:05 CST		0	Hail (1.00 in)
	07/22/09 18:05 CST		0	Source: Public
The hail was accompanied by strong winds but no estimate of the wind speed was given.				
<b>Scattered thunderstorms developed in extreme western Iowa northeast of a warm front that was located in central Nebraska, aided by a disturbance dropping southeast in the upper levels. At least one storm became severe a little northeast of the Omaha area.</b>				
<b>NEBRASKA, East</b>				
<b>THURSTON COUNTY --- 4.7 E PENDER [42.11, -96.61], 7.0 E PENDER [42.12, -96.56]</b>				
	07/07/09 22:38 CST		0	Thunderstorm Wind (EG 52 kt)
	07/07/09 22:43 CST		0	Source: Emergency Manager
Thunderstorm winds were estimated at 60 mph by emergency management from around 5 miles to 7 miles east of Pender. The winds were accompanied by penny-size hail.				
<b>THURSTON COUNTY --- 5.0 E PENDER [42.12, -96.60]</b>				
	07/07/09 22:38 CST		0	Hail (0.75 in)
	07/07/09 22:38 CST		0	Source: Emergency Manager
The hail was accompanied by wind gusts estimated at 60 mph.				
<b>WAYNE COUNTY --- 0.7 S WAKEFIELD [42.26, -96.87]</b>				
	07/07/09 23:32 CST		0	Thunderstorm Wind (EG 50 kt)
	07/07/09 23:32 CST		0	Source: Newspaper
Thunderstorm wind gusts estimated at nearly 60 mph split a few large trees near Wakefield.				
<b>DOUGLAS COUNTY --- 0.5 NE (OMA)EPPELY FLD OMAH [41.30, -95.89], 1.6 SSE ALBRIGHT [41.20, -95.95]</b>				

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	07/07/09 23:57 CST		0	Thunderstorm Wind (MG 54 kt)
	07/08/09 00:07 CST		0	Source: ASOS

Thunderstorm wind gusts were measured at 63 mph at the Asos at Omaha-Eppley. The winds caused scattered tree damage in east and south Omaha which also caused some power outages.

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### SARPY COUNTY --- BELLEVUE [41.12, -95.90]

07/08/09 00:16 CST	0	Thunderstorm Wind (EG 50 kt)
07/08/09 00:16 CST	0	Source: Trained Spotter

Thunderstorm winds estimated at close to 60 mph knocked down tree limbs in the Bellevue area causing some power outages.

**A thunderstorm complex that developed over South Dakota during the evening of July 7th moved southeast along an instability gradient and down the Missouri River reaching the Omaha area before weakening. The storms mainly produced strong winds but some hail was also reported.**

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### OTOE COUNTY --- 3.0 N UNADILLA [40.72, -96.27]

07/08/09 07:10 CST	0	Hail (1.00 in)
07/08/09 07:10 CST	0	Source: Trained Spotter

Nickel to quarter-size hail was reported by a spotter 3 miles north of Unadilla.

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### JOHNSON COUNTY --- 2.0 NW TECUMSEH ARPT [40.45, -96.21], TECUMSEH [40.37, -96.18]

07/08/09 10:00 CST	0	Hail (1.00 in)
07/08/09 10:13 CST	0	Source: Public

Hail up to quarter-size fell from just northwest of Tecumseh into the Tecumseh area.

**A complex which moved down the Missouri River during the predawn hours of July 8th spread an outflow boundary into southeast Nebraska. A few severe thunderstorms developed on this boundary during the mid to late morning hours before the complex moved into Kansas.**

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### KNOX COUNTY --- CROFTON [42.73, -97.48]

07/09/09 04:00 CST	0	Heavy Rain
07/09/09 06:00 CST	0	Source: Newspaper

Rainfall of 1 to 2 inches fell for the second morning in a row in the Crofton area. Due to saturated ground, the rainfall this morning caused some minor flooding around culverts in and around the Crofton area causing ponding of water in a park and softball complex in town.

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### CEDAR COUNTY --- WYNOT [42.75, -97.17], 0.8 SW ST JAMES [42.72, -97.14], 1.7 ENE ST JAMES [42.74, -97.10], 2.0 ENE WYNOT [42.76, -97.13]

07/09/09 06:00 CST	50K	Flash Flood (due to Heavy Rain)
07/09/09 08:00 CST	0	Source: COOP Observer

Thunderstorms dropped very heavy rain in the Wynot area which produced areas of flash flooding. The cooperative observer near Wynot reported 3.55 inches of rain in a several hour period during the morning of July 9th. The flooding was observed across several county roads and Highway 12 near Wynot. Gravel was washed off of a few roads and some culvert damage was noted.

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### CEDAR COUNTY --- 1.0 SSE ST HELENA [42.81, -97.24], 0.9 SSE WYNOT [42.74, -97.16]

07/09/09 06:05 CST	0	Hail (1.75 in)
07/09/09 06:15 CST	0	Source: Trained Spotter

Hail up to golf ball-size was accompanied by thunderstorm winds estimated at around 60 mph. The winds and hail caused extensive crop damage from around St. Helena to around Wynot and some houses, outbuildings and vehicles also sustained damage. According to a few long-time farmers in the area it was the worst hail they had ever seen and some of the hail remained in shaded areas into the afternoon. A local farm county agent stated that 64 sections in the area were affected, although much of that consisted of timber and pasture. Heavy rain also caused localized flooding in the region.

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### CEDAR COUNTY --- ST HELENA [42.82, -97.25], WYNOT [42.75, -97.17]

07/09/09 06:05 CST	0	Thunderstorm Wind (EG 52 kt)
07/09/09 06:15 CST	0	Source: Law Enforcement

Thunderstorm winds estimated at 60 mph from St. Helena to Wynot were accompanied by hail up to golf ball-size and very heavy rain. The wind and hail caused extensive crop damage from near St. Helena to around Wynot.

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### CEDAR COUNTY --- BOW VLY [42.72, -97.23]

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	07/09/09 06:15 CST		0	Hail (1.75 in)
	07/09/09 06:15 CST		0	Source: Newspaper

Hail up to golf ball-size was driven by winds at least at 50 mph causing extensive crop damage in the Bow Valley area . The damage was from the same storm that caused a swath of damage from near St. Helena and Wynot east to the Dixon county line .

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### KNOX COUNTY --- 1.0 W CROFTON [42.73, -97.50]

07/09/09 06:45 CST	0	Hail (1.00 in)
07/09/09 06:45 CST	0	Source: Trained Spotter

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### CEDAR COUNTY --- 0.5 E HARTINGTON [42.62, -97.26]

07/09/09 07:05 CST	0	Thunderstorm Wind (MG 54 kt)
07/09/09 07:05 CST	0	Source: Emergency Manager

Wind equipment on local cable TV measured a thunderstorm wind gust of 62 mph. Rainfall of 2.16 inches also fell from the storm.

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### CEDAR COUNTY --- 0.5 E HARTINGTON [42.62, -97.26]

07/09/09 07:13 CST	0	Hail (0.88 in)
07/09/09 07:13 CST	0	Source: Law Enforcement

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### CUMING COUNTY --- 1.4 N BANCROFT [42.04, -96.57]

07/09/09 08:20 CST	0	Thunderstorm Wind (EG 61 kt)
07/09/09 08:20 CST	0	Source: Public

A thunderstorm produced wind gusts estimated at nearly 70 mph north of Bancroft before the storm weakened.

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### THURSTON COUNTY --- WALTHILL [42.15, -96.48]

07/09/09 08:25 CST	0	Hail (0.75 in)
07/09/09 08:25 CST	0	Source: Law Enforcement

Hail up to penny-size was reported along with very heavy rain which caused some minor street flooding in town.

**For the second time in a few days thunderstorms which developed over South Dakota turned southeast along an instability axis and on the edge of a warm mid-level cap. These storms dropped large hail, very heavy rain and gusty winds as they moved along the Missouri River. This time the storms weakened well north of the Omaha area. However, before they weakened...the storms that tracked across northern Cedar caused extensive crop damage along with flash flooding.**

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### RICHARDSON COUNTY --- FALLS CITY [40.07, -95.60]

07/10/09 01:55 CST	0	Hail (1.00 in)
07/10/09 02:00 CST	0	Source: Public

Hail up to quarter-size fell for at least several minutes in the Falls City area.

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### KNOX COUNTY --- 3.4 NE BLOOMFIELD [42.64, -97.59]

07/10/09 04:30 CST	0	Hail (1.00 in)
07/10/09 04:30 CST	0	Source: Public

Hail may have reached quarter-size according to a public report. The hail was accompanied by winds of at least 40 mph which caused some crop damage in the area.

**Isolated strong thunderstorms tracked across far northeast and far southeast Nebraska during the predawn hours of July 10. The storms formed near weak boundaries that were in place across the area. Warm mid level temperatures apparently helped limit the areal coverage of the storms in the morning and suppressed additional activity later that afternoon.**

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### BURT COUNTY --- 1.2 NE TEKAMAH ARPT [41.78, -96.16]

07/12/09 10:35 CST	0	Thunderstorm Wind (EG 52 kt)
07/12/09 10:35 CST	0	Source: Public

The public estimated that Thunderstorm wind gusts reached 55 to 60 mph.

**An upper level disturbance combined with the return flow of warmer and more unstable air and fueled a thunderstorm complex that dropped down the Missouri River Vally during the mid to late morning hours of July 12th. The storms produced mainly strong winds.**

## Storm Data and Unusual Weather Phenomena - July 2009

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<b>PLATTE COUNTY --- 1.0 W COLUMBUS [41.43, -97.39]</b>				
	07/22/09 15:02 CST		0	Hail (1.00 in)
	07/22/09 15:02 CST		0	Source: Trained Spotter
A spotter estimated hail reached penny to quarter-size a little west of Columbus.				
<b>SEWARD COUNTY --- MILFORD [40.77, -97.05]</b>				
	07/22/09 17:30 CST		0	Thunderstorm Wind (EG 52 kt)
	07/22/09 17:30 CST		0	Source: Trained Spotter
A spotter estimated that thunderstorm winds reached 60 mph in the Milford area.				
<b>Scattered thunderstorms developed along a warm front that moved into central Nebraska during the afternoon of July 22. The storms produced damaging winds and large hail, although most of the damage from them remained just west of the region over central Nebraska.</b>				
<b>COLFAX COUNTY --- 7.0 S CLARKSON [41.62, -97.13], 4.2 NNW SCHUYLER [41.51, -97.10]</b>				
	07/24/09 19:03 CST		0	Hail (1.75 in)
	07/24/09 19:22 CST		0	Source: Law Enforcement
Hail up to golf ball-size fell from south of the Clarkson and Howells area to near Schuyler. The hail caused sporadic damage to shingles and siding in the region and was accompanied by strong winds.				
<b>COLFAX COUNTY --- 7.0 N SCHUYLER [41.55, -97.07], 0.5 ENE SCHUYLER [41.45, -97.06]</b>				
	07/24/09 19:15 CST		0	Thunderstorm Wind (EG 55 kt)
	07/24/09 19:15 CST		0	Source: Public
Thunderstorm winds estimated at over 60 mph caused tree and scattered house damage from around 7 miles north of Schuyler into Schuyler. Seven miles north of town the winds blew a kitchen window out of a house, and trees or large branches were downed in the Schuyler area causing scattered house damage. The winds were accompanied by hail up to golf ball-size.				
<b>PLATTE COUNTY --- 1.0 WSW COLUMBUS [41.42, -97.39]</b>				
	07/24/09 19:20 CST		0	Hail (0.88 in)
	07/24/09 19:20 CST		0	Source: NWS Employee
A few hailstones up to nickel-size fell for a minute or two in the Wagner Lakes region in southwest Columbus.				
<b>COLFAX COUNTY --- 0.5 E SCHUYLER [41.45, -97.06]</b>				
	07/24/09 19:25 CST		0	Hail (1.00 in)
	07/24/09 19:25 CST		0	Source: Law Enforcement
The hail was accompanied by winds estimated at up to 50 mph. Apparently winds were stronger and hail a bit larger north of town.				
<b>BUTLER COUNTY --- DAVID CITY [41.25, -97.13]</b>				
	07/24/09 19:40 CST		0	Thunderstorm Wind (EG 60 kt)
	07/24/09 19:40 CST		0	Source: Law Enforcement
Thunderstorm winds were estimated at 60 to 70 mph. The winds downed some trees and knocked power to sections of town.				
<b>BUTLER COUNTY --- 4.2 W DWIGHT [41.08, -97.10]</b>				
	07/24/09 19:55 CST		0	Hail (0.75 in)
	07/24/09 19:55 CST		0	Source: Public
<b>BUTLER COUNTY --- 5.0 SE GARRISON [41.13, -97.10]</b>				
	07/24/09 19:55 CST		0	Hail (1.50 in)
	07/24/09 19:55 CST		0	Source: Trained Spotter
<b>A slow moving cold front kicked off a few severe thunderstorms over eastern Nebraska during the mid evening hours of July 24th. Initially warm mid level temperatures had hindered development, but they were overcome as the front encountered a bit better low level inflow and instability.</b>				